

EXHIBIT

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METHODS FOR IDENTIFYING AGENTS WHICH ALTER HISTONE PROTEIN ACETYLATION, DECREASE AGING OR INCREASE LIFESPAN

RELATED APPLICATIONS

- 5 This application is a continuation-in-part of U.S. Serial No. 09/461,580, filed
December 15, 1999, the entire teachings of which are hereby incorporated by reference
in their entirety.

GOVERNMENT SUPPORT

- 10 The invention was supported, in whole or in part, by grants AG 11119 and
AG15339 from the National Institutes of Aging. The Government has certain rights in
the invention.

BACKGROUND OF THE INVENTION

- 15 Aging involves progressive and irreversible loss of cellular processes and
physiological functions that ultimately increase the likelihood of death. Molecular
correlates of aging, including an increase in chromosomal structural abnormalities, the
frequency of single-strand DNA breaks, a decline in DNA methylation, and a loss of
DNA telomeric sequences, have been described in a range of eukaryotic organisms
from mammals, such as humans, to unicellular organisms, such as yeast.